

**Project Plan
For
AIRCRAFT STENCILING and MARKING MACHINE PROJECT**

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Scope: The scope of this task is to reduce the Hazardous Air Pollutants (HAPs) and Volatile Organic Compounds (VOCs) created by painting aircraft markings and insignias. Conventional stenciling and marking operations required the use of paint and masking materials, generating hazardous waste in the form of paint, spray cans, rags, masking tape and spent solvents. A major drawback of the traditional markings is that painted stencil markings tend to wear off due to weather and flight-wear and hence the markings need to be reapplied often. Further, workers are exposed to paint and solvent fumes. In addition to the environmental concerns of the current marking of aircraft, the current application is extremely labor intensive, and a definite readiness issue is noticed. These problems result in significant down time for Navy aircraft with costs measured in lost flight time, degraded mission availability, and frequent reapplication of markings and insignias due to wear and exposure.

The funding for FY 03 for this subtask is \$45K. See table for specific tasks (milestones) and projected completion dates. The deliverables will be an approved vinyl material and a Roland PC-60 print and cut system with associated software.

MILESTONE	COMPLETION DATE
Receive and install decal marking equipment	August 03
Coordinate with TYCOMs, PMA and Wing Commanders for identification of aircraft for application of decal installation	December 03
Complete optimization and characterization of decal material (laboratory testing)	January 04
Install decal material on an H-60 / EA-6B / P-3C / F-18 (6 month demo)	April 04
Compile mid deployment analysis of the H-60 / EA-6B / P-3C / F-18	July 04

Conduct post deployment inspection on the H-60 / EA-6B / P-3C / F-18	October 04
Draft final analysis report	October 04
Update MIL-STD-2161 and NA-01-1A-509 publications	November 04
Transition technology to the fleet via PPEP	December 04

Work Plan: Preliminary work will be the evaluation of the materials performance, in the lab but principally in the field, on several vinyl materials to measure applicability in the Navy's operational environment. NAWCADPAX, NADEP Jacksonville, NATEC Whidbey Island and NATEC New Orleans working together, in conjunction with the vendor and fleet activities will develop and optimize the vinyl material on such as issues as moisture, sealing qualities, UV exposure, fluid susceptibility, air load effects and ease of installation and removal of vinyl material. The Navy Support Equipment (SE) program headed by PMA-260 has successfully evaluated and transitioned a vinyl material for operational application and performance on systems and has recommended full-scale incorporation of vinyl for all SE.

Management Responsibilities: Dr. Kevin Kovaleski shall be responsible for the overall planning, allocation of resources, monitoring, and reporting for this subtask. Responsibilities for the performance of this effort include Ms. Diane Kleinschmidt, Mr. Thomas G. Doughty, Mr. Greg W. Garrett at NAWCAD Patuxent River, MD and Mr. Jack Benfer, NADEP Jacksonville, FL. There will be mid and final reports on the performance and applicability of the vinyl and a final project completion report.